

# AMERICAN SOCIETY FOR TESTING MATERIALS



## ~ BULLETIN ~

ENGINEERS' CLUB BUILDING.

1315 SPRUCE ST.

PHILADELPHIA, PA.

NUMBER 5

APRIL 29, 1922

### Twenty-Fifth Annual Meeting of the Society

As previously announced, the Twenty-fifth Annual Meeting of the Society will be held at Chalfonte-Haddon Hall, Atlantic City, N. J., during the week of June 26, 1922. Monday, June 26, will be devoted to committee meetings. There will be twelve business sessions, beginning Tuesday morning, June 27, and ending Friday evening, June 30. On Thursday evening and again on Friday morning two sessions will be held simultaneously.

**Program.**—A copy of the provisional program for the meeting—by far the largest we have ever had—is enclosed. For the first time, the program is published in booklet form. This has made it possible to announce on the program the salient points of most of the reports and papers, a feature that it is believed will be appreciated by the members. The Provisional Program is subject to change. The Committee on Papers realizes that our members make their plans in accordance with the announcements on this program, and every effort will be made in arranging the final program to make as few changes as possible.

A glance over the program will show how important and interesting this annual meeting will be. Space permits our calling attention here to only a few of the special features:

**Steel Castings.**—The study of physical properties of steel castings and the preparation of specifications for railroad castings have jointly engaged the attention of our Society and the American Railway Association for over two years. Important data obtained during that period will be presented.

**Effect of Sulfur on Rivet Steel.**—A report of an extended investigation under the auspices of a representative joint committee.

**Impact Testing of Materials.**—The Wednesday evening session is devoted to a symposium on this subject, which is becoming of increasing importance in the testing of materials.

**Specifications for Coal.**—This is a subject that will have a wide appeal to our membership. It will be discussed at the Thursday afternoon session by authorities in that field.

**Inspection of Concrete.**—Committee C-2 on Reinforced Concrete contemplates the proposal of Rules for Inspection of Concrete and Reinforced Concrete Work. Plans are being made for a full discussion of this important subject.

**Specifications for Concrete.**—At the closing session the Progress Report of the Joint Committee presented by title a year ago will be discussed, including comments that have been prepared by several A.S.T.M. committees.

**Preprints.**—The first instalment of preprints, comprising a number of committee reports and papers, will be mailed to each member about May 8. With each set will be included a return addressed envelope in which the members are requested

to mail to the Secretary any preprints they do not wish to keep. **Don't throw away Preprints; the Secretary can always use them.** Preprints of the remaining items on the program will be mailed in advance of the meeting as far as possible or will be available for distribution at the meeting.

**Hotel Reservations.**—The prompt advance reservation of rooms on the part of members expecting to attend the annual meeting is advisable. In making reservations at Chalfonte-Haddon Hall, the Society headquarters, members are requested to use the enclosed card addressed to the hotel management. Chalfonte-Haddon Hall is operated entirely on the American plan, and the special rates for members and their guests, as announced in BULLETIN No. 4, are here repeated:

ROOMS WITH PRIVATE BATH	PER DAY
Room occupied by one person.....	\$10.00
Room occupied by two persons.....	\$13.00 to 18.00

ROOMS WITH RUNNING WATER	PER DAY
Room occupied by one person.....	\$6.00 to 8.00
Room occupied by two persons.....	\$12.00 to 14.00

Attention of the members is again especially called to the fact that the Chalfonte and Haddon Hall each has its own dining room service, so that members who may wish to take their meals together should be sure to secure reservations in the same hotel.

The hotel management has assured us that the new 14-story wing of Haddon Hall will be completed and in use by the time of our meeting.

**Registration at Annual Meeting.**—Members planning to attend the annual meeting are requested to fill out and mail promptly the accompanying card addressed to the Society. **This is important.** Each member will receive his badge and papers as he registers at the A.S.T.M. desk. Members should arrange for the registration of ladies in their party promptly on their arrival. Members desiring to register guests will be furnished with additional registration cards on request to the Secretary-Treasurer.

**Entertainment Features.**—There will be an informal dance and smoker following the presentation of the Presidential Address on Tuesday evening. Friday afternoon is devoted to recreation, including the Golf and Tennis Tournaments. Detailed announcements concerning these tournaments and other entertainment features will be made later.

# A.S.T.M. BULLETIN

Issued January, April, July and October

by the

AMERICAN SOCIETY FOR TESTING MATERIALS  
Engineers' Club Building, 1315 Spruce St., Philadelphia, Pa.

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(Term Expiring in 1924)

*Assistant Treasurer*

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Number 5

April 29, 1922

## A Word About This Issue

In view of the fact that within the next six weeks all committee reports that can be printed in time will be distributed to every member, the section on "Committee Activities" has been omitted from this number of the BULLETIN.

The next general period of committee meetings will be the week of the annual meeting. The Secretary will ascertain which committees and sub-committees desire to hold meetings at that time and the day and hour preferred. From this information a schedule of meetings will be prepared and announced in a later circular letter. For this reason the usual schedule of committee meetings published in the BULLETIN has been omitted from this number.

## Membership

The membership of the Society reported at the April meeting of the Executive Committee was 2924. The number of new members for the first quarter of the year was 130 compared to 102 for the corresponding quarter of 1921, and although losses by resignation and otherwise are somewhat greater than last year, the Executive Committee believes that in consideration of improved business conditions, our membership curve should now go steadily upwards. A number of new members can be attributed to the efforts of our members, and the Executive Committee earnestly solicits the continued interest and help of the membership in this direction.

## Index of Proceedings 1913 to 1920 to be Published

The recent circularization of the membership of the Society has resulted in a sufficient number of orders to warrant the publication of an Index of the Proceedings from Vols. XIII to XX inclusive (1913 to 1920) on the basis that copies will be furnished at cost to members ordering them. This Index will comprise about 250 pages and will contain a complete subject and author index of the committee reports and papers for the respective volumes. It is expected to publish the volume in the fall. Members who have not already done so may place an order with the Secretary-Treasurer at any time for a copy of this volume. Further announcement of the publication of this Index will be made.

## Rotation of Annual Meetings Considered

### Two Meetings Annually Suggested

In the BULLETIN for October, 1921, the Executive Committee announced that in the questionnaire issued shortly after the last annual meeting, 305 members had favored the plan of holding annual meetings in different places in succeeding years, while 182 had opposed it. The Executive Committee charged a special committee with the task of reviewing a number of suggestions which accompanied these returns, and at the April meeting of the Executive Committee the committee presented the following report:

Your special committee appointed to review the replies to the questionnaire sent to our membership in connection with the place for holding the annual meeting begs to report as follows:

The replies to the questionnaire, as indicated in the analysis prepared by the Secretary-Treasurer and sent to each member of the Executive Committee with the order of business, indicate a very diverse opinion and it is therefore impossible for your committee to draw any definite conclusions therefrom. On only the one question is there a decided vote, namely, that it is desirable to alternate the meeting place. This vote was 305 in favor of such a plan and 182 against. Attention is called to the fact that this vote of 487 represents only about 15 per cent of the membership of the Society. The center of gravity of Society membership is in eastern Ohio, about fifty miles southeast of Cleveland. Of the 305 members who favored the plan of rotating annual meetings in some way, 166 (of whom 88 attended the 1921 meeting) were east of the center of gravity of membership, and 139 (of whom 23 attended the 1921 meeting) were west of that point.

The Secretary-Treasurer had referred to your committee the following resolution passed by Committee E-6 on Papers and Publications at its meeting on March 8:

"Whereas, In the formulation of the program for the annual meeting of the Society, the Committee on Papers and Publications has been confronted with the difficulty of providing for both reports of standing committees and the technical papers at the same sessions, which, together with space limitations in the Proceedings, has resulted in the committee being forced to reject papers of value; and

"Whereas, There seems to be a feeling that the annual meetings are losing to some extent the usual interest that has characterized them in past years, by reason of the necessity of presenting both committee reports and papers under considerable pressure as to time, with little opportunity for discussion, which lends interest to the meetings; and

"Whereas, The rapidly increasing number of interests of the Society are yearly adding to these difficulties; therefore, be it

"Resolved, That the Executive Committee of the Society be requested to give immediate and careful consideration to the plan of holding simultaneous sessions during the annual meeting; and further, that it give consideration to the desirability of holding annually two meetings of the Society, one, as usual, in June for the consideration of standards and tentative standards, and a mid-winter meeting, which could be a technical session for consideration of papers on testing and research."

Your committee favors the plan suggested by Committee E-6 for holding simultaneous sessions at the coming meeting if necessary. Your committee is favorable also to the plan of holding two meetings of the Society annually if next year or some future year it seems to be necessary or warranted. If the two meetings are held, your committee would be in favor of holding one on the Atlantic Coast and the other in a city in the Central West.

The Executive Committee has continued the special committee to make a further study of the matter, especially in view of the recommendation of the Committee on Papers that consideration be given to the desirability of holding two meetings of the Society a year. The Executive Committee also authorized the Committee on Papers to arrange for one or more simultaneous sessions at the coming annual meeting if necessary.

### Questionnaire on Distribution of Preprints

The Executive Committee has canvassed the returns from the recent questionnaire on distribution of A.S.T.M. preprints, which may be summarized briefly as follows:

Plan 1.—The plan now in force .....	171
Plan 2.—Same as at present, except only reports and papers not mailed in advance would be distributed at meeting .....	240
Plan 3.—Mail all reports in advance; mail papers in advance only to members requesting them; and distribute complete set at annual meeting .....	51
Plan 4.—Mail in advance of meeting only reports and papers members have requested; distribute complete set of reports and papers at meeting .....	335
Special Comments .....	22

Total number of returns .....

After a full and complete discussion of the entire preprint policy of the Society, the Executive Committee has voted to adopt Plan 4 as the future policy with respect to the distribution of preprints and to put it into effect beginning with the annual meeting in 1923. The present requirement in the Regulations Governing Standing Committees that all committee reports shall be mailed in advance to every member of the Society makes it necessary, in the opinion of the Executive Committee, to continue the present plan of distribution for the annual meeting this year. The Executive Committee and Committee E-5 on Standing Committees will jointly consider a modification of the present requirement which will permit the distribution of committee reports as planned.

Under the new plan of distribution, opportunity will be given to each member of the Society to indicate those reports and papers on the program of the meeting that he desires to have sent to him. Appropriate announcements regarding details of operation of this plan will be made in later issues of the BULLETIN. Many helpful suggestions were received from the members, which will be given due consideration.

### Questionnaire on Distribution of Regular Publications

The returns from this questionnaire have also been analyzed by the Executive Committee. The key question was:

"Do you believe the Society should adopt a policy of distributing regular publications only to those members who state their desire to receive specific ones?"

There were 787 replies to this question; 430 answering "yes" and 357 answering "no." Of the affirmative votes, however, 330 members indicated that should this policy be adopted they would nevertheless desire to receive complete sets of the Society's publications. In all, 826 members returned the questionnaire and of these 693, or about 85 per cent, indicated their wish to receive all publications of the Society whatever policy was adopted. The remaining 15 per cent of the returns were very scattered, the members indicating their desire to receive certain sections of the Standards or Proceedings should some policy of selective distribution be adopted.

After full and careful discussion, the Executive Committee has voted to continue the present policy of the Society with respect to distribution of regular publications, and has directed Committee E-6 on Papers and Publications to consider and report upon a plan of issuing the Book of A.S.T.M. Standards in sections or in loose-leaf binding, in such a way as to effect maximum economy in the publication of that volume and at the same time make it possible for members to secure in most convenient form those groups of standards which they especially desire.

### Nominating Committee for Officers

The returns from the letter ballot on recommendations for appointments on the Nominating Committee for Officers were canvassed by a committee of tellers appointed by the President, consisting of Mr. H. C. Porter and Mr. F. B. Lysle. The report of this committee to the Executive Committee showed that 316 legal ballots had been voted. Of the votes cast one member received 54; one 39; one 20; one 12; one 11; one 10; two 9; one 8; two 7; six 6; four 5; nine 4; and 206 fewer than 4 votes each.

The Executive Committee accordingly made the following appointments on the Nominating Committee in general conformity with the indications of this vote:

MEMBERS.	ALTERNATES.
Stevenson, A. A.	Irons, R. H.
Delbridge, T. G.	Dow, A. W.
Gibboney, J. H.	Waring, F. M.
Bates, P. H.	Emley, W. E.
Talbot, A. N.	Humphrey, Richard L.
Stone, G. C.	Sabin, A. H.

*Ex-Officio.* G. H. Clamer. J. A. Capp. George S. Webster.

Acceptances of their appointments were received from every member and every alternate excepting Mr. A. N. Talbot and his alternate, Mr. Richard L. Humphrey, and Mr. A. H. Sabin. The vacancy was filled by the appointment of Mr. H. C. Berry. The meeting of the Committee was held on March 8 at the Society Headquarters and was attended by every member.

### Nominations for Officers

The following nominations for officers reached by unanimous action of the Nominating Committee are announced:

*For President:* George K. Burgess.

*For Vice-President:* W. H. Walker.

*For Members of Executive Committee:* D. M. Buck, W. M. Corse, W. K. Hatt, J. R. Onderdonk.

Each of the above nominees has indicated in writing his acceptance of his nomination, and as provided in the By-laws these nominations are now formally announced to the membership at large "through a notice issued during the last week in April." The By-laws provide that "further nominations, signed by at least 25 members, may be submitted to the Secretary-Treasurer in writing by May 20, and a nomination so made, if accepted by the member nominated, shall be placed on the official ballot" which "shall be issued to the members between May 20 and June 1."

### New Activities Under Consideration

At a recent meeting of the Executive Committee it was decided to canvass the desirability of extending the scope of the Society's committee work to include studies of slate, glass, glue and asbestos products in so far as they are used as engineering materials. Suggestions from any of our members with respect to these topics will be welcomed.

### Stresses in Structural Steel for Buildings

The Building Code Committee of the Department of Commerce, Ira H. Woolson, chairman, has requested the Society to give publicity to the fact that that committee desires to secure individual expressions of opinion from any of our members who are interested concerning proposals that have recently been made to modify building codes throughout the country by permitting higher unit stresses in the design of structural steel units in buildings. The committee realizes that, this being a question of design, it is not within the province of the A.S.T.M. to pass an official opinion on it. The committee will not make public the names of persons offering suggestions. Communications should be addressed to the Building Code Committee, U. S. Department of Commerce, Washington, D. C.

### Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys Organized

The new standing committee on Corrosion of Non-Ferrous Metals and Alloys, referred to in BULLETIN No. 4, was formally organized at a meeting in New York on February 21 at which Vice-President George K. Burgess acted as temporary chairman. The personnel of the committee follows:

#### NON-PRODUCERS.

Bigelow, W. D., National Canners' Association.  
Blakeley, A. G., Philadelphia and Reading Coal and Iron Co.  
Bureau of Engineering, U. S. N., Naval Experiment Station.  
Campbell, Johnstone, Lehigh Valley Coal Co.  
Campbell, William, Columbia University.  
Fieldner, A. C., U. S. Bureau of Mines.  
General Electric Co., T. S. Fuller.  
Lasier, E. L., U. S. Shipping Board.  
Lathrop, E. C., E. I. du Pont de Nemours and Co.  
Mathewson, C. H., Yale University.  
Moore, R. B., U. S. Bureau of Mines.  
Rawdon, H. S., U. S. Bureau of Standards.  
Richardson, W. D., Swift and Co.  
Siegel, Maurice, Edgewood Arsenal, Chemical Warfare Service.

#### PRODUCERS.

Ajax Metal Co., G. H. Clamer.  
American Brass Co., W. H. Bassett.  
Bridgeport Brass Co., W. R. Webster.  
Corse, W. M., Division of Research Extension, N.R.C.; Consulting Engineer, International Nickel Co.  
Cowan, W. A., National Lead Co.  
Damascus Bronze Co., W. K. Frank.  
Jefferies, Zay, Aluminum Manufacturers, Inc.  
Merica, P. D., International Nickel Co.  
New Jersey Zinc Co., G. C. Stone.  
Price, W. B., Scovill Manufacturing Co.  
Raritan Copper Works, F. L. Antisell.  
Tour, Sam., Doehler Die Casting Co.

At the meeting the following officers were elected: Chairman, E. C. Lathrop; Vice-Chairman, W. D. Richardson; Secretary, Sam. Tour. After a discussion of the scope of the committee's work, the chairman was authorized to appoint a program committee which shall present to the committee at its next meeting an outline of work. It is felt that one of the most important activities of the committee is the formulation of methods of conducting and interpreting corrosion tests.

The committee endorsed the appointment of W. H. Bassett as its representative on the general Corrosion Committee of the National Research Council.

As a result of the interest in the general study of corrosion evidenced by the organization of this committee, there has been scheduled on the program for the annual meeting a paper giving a general review of the problem of corrosion of metals, which it is expected will bring out some very interesting discussion and will point the way to problems that the new committee should undertake.

### Steel Committee Preparing Shafting Specifications

As the outcome of the conference with the Sectional Committee on Standardization of Shafting, of which the American Society of Mechanical Engineers is sponsor, Committee A-1 on Steel is undertaking the preparation of Standard Specifications for Steel Shafting, which represents an extension of the work which the committee has already completed in the preparation of Specifications for Commercial Bar Steels, including Cold-Drawn Automatic Screw Stock.

At the suggestion of Committee D-2 on Petroleum Products and Lubricants, the American Gas Association <sup>1</sup> as appointed a special committee which will cooperate with a sub-committee of Committee D-2 in the preparation of specifications for gas oils.

### Cement Specifications Now American Standard

By recent action, the American Engineering Standards Committee has formally approved the A.S.T.M. Standard Specifications and Tests for Portland Cement (C 9-21) as "American Standard." This is the first A.S.T.M. standard, and incidentally the first specification for a material, that has received this official designation.

The A.S.T.M. Standard Specifications for Drain Tile (C 4-21) were by recent action of the Standards Committee approved as "Tentative American Standard."

The following four A.S.T.M. standards have recently been submitted to the Standards Committee for approval as "Tentative American Standard":

Standard Methods of Chemical Analysis of Alloys of Lead, Tin, Antimony and Copper (B 18-21);  
Standard Methods of Laboratory Sampling and Analysis of Coke (D 37-21);  
Standard Specifications for Purity of Raw Linseed Oil from North American Seed (D 1-15);  
Standard Specifications for Purity of Boiled Linseed Oil from North American Seed (D 11-15).

Other standards are being submitted to the Standards Committee for similar action.

The Executive Committee has appointed A. L. Kuehn as representative of the Society and H. P. Hass as alternate on the Sectional Committee on Standardization of Tie Specifications being organized under the joint sponsorship of the U. S. Forest Service and the American Railway Engineering Association. Both Mr. Kuehn and Mr. Hass are members of Committee D-7 on Timber.

The Executive Committee has recently appointed G. K. Burgess, G. H. Clamer and Richard Molenke as representatives of the Society on the Joint Molding Sand Research Committee of the National Research Council and the American Foundrymen's Association. Our representatives will aid the committee especially in the formulation of tests for molding sand.

A report on sand reclamation has been prepared by the Joint Committee which embodies the latest developments in the recovery of usable sand from refuse sand by the "centrifugal scrubbing" method.

### List of Publications

**Proceedings, Volume 21 (1921).**—The proceedings are issued in one volume of 1196 pages. The volume contains the committee reports with discussions, new and revised tentative standards and the technical papers with discussions. Prices to non-members: paper \$10, cloth \$11, half-leather \$12.50. To members for extra copies: \$6, \$7 and \$8.50, respectively.

**Book of A.S.T.M. Standards.**—Issued triennially. The 1921 edition (890 pp.) contains 160 standards adopted by the Society. Prices to non-members: cloth \$10, half-leather \$11.50. To members for extra copies: \$7 and \$8.50.

**Book of A.S.T.M. Tentative Standards.**—The 1921 edition (518 pp.) contains 127 tentative standards issued by the Society. Prices to non-members: paper \$5, cloth \$6. To members: \$3.50 and \$4.50.

**Separate Standards and Tentative Standards.**—Separate copies of all standards and tentative standards are available. The price is 25 cents for a single copy and in lots up to 50. Larger quantities are furnished at lower prices.

**Complete Sets of Proceedings** from 1902 to 1921, inclusive (with the exception of Vols. I and III). Special prices are made to members for extra copies and for complete sets. Binding in paper, cloth or half-leather.

**Miscellaneous.**—Volume of annual reports of Committee D-1 on Preservative Coatings for Structural Materials for the years 1903-1914 (567 pp.). Price, \$5.00 in cloth.

Progress report of Joint Committee on Specifications for Concrete and Reinforced Concrete (1921). Price, \$1.50.

Inquiries and orders should be directed to:

AMERICAN SOCIETY FOR TESTING MATERIALS  
1315 Spruce Street, Philadelphia